## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this Application:

## **Listing of Claims**:

- 1. (Currently amended) A <u>communication transmitter comprising an emitter and a concentrator, the concentrator having a first surface, a second surface, and a concentrating surface disposed between the first surface and the second surface, the concentrating surface having a first profile which <u>effects can effect</u> concentration of incident radiation at the first surface on to the second surface, and <u>which is configured to discriminately collect incident radiation depending on polarisation such that incident radiation which reaches wherein the <u>emitter is adjacent</u> the second surface <u>for emitting radiation from the second surface, the first profile effecting diffusion of emitted has a higher proportion of radiation that is plane polarised in a predetermined orientation than the radiation incident at from the second surface on to the first surface, and radiation being transmitted from the first surface.</u></u></u>
- 2. (Currently amended) A concentrator communication transmitter according to claim—1\_41 which—further comprises—comprising a polarising filter preferably along an optical path which passes through the first and second surfaces.
- 3. (Currently amended) A concentrator-communication transmitter according to claim-2 wherein the polarising filter is adjacent and/or proximal the second surface.
- 4. (Currently amended) A concentrator-communication transmitter according to claim 3 wherein a-the polarising filter is adjacent the first surface and/or the first surface comprises a-the polarising filter.
  - 5. (Canceled).
- 6. (Currently amended) A concentrator-communication transmitter according to claim 1 wherein the first profile is designed such that only incident radiation having an angle of incidence within a predetermined acceptance angle is concentrated by the first profile to the second surface.
- 7. (Currently amended) A concentrator communication transmitter according to claim 1 comprising a second profile disposed between the first and second surfaces which second profile is shaped to concentrate less incident radiation than the first profile.

- 8. (Currently amended) A eoncentrator communication transmitter according to claim 6 wherein the predetermined acceptance angle of the second profile is smaller than acceptance angle of the first profile.
- 9. (Currently amended) A concentrator communication transmitter according to claim 1 wherein the first surface has a major diameter/dimension and a minor diameter/dimension wherein the major diameter/dimension is longer than the minor diameter/dimension.
- 10. (Currently amended) A concentrator-communication transmitter according to claim 9 wherein the major and minor diameter/dimensions are substantially perpendicular.
- 11. (Currently amended) A <u>eoneentrator communication transmitter</u> according to claim 9 wherein the major diameter/dimension is delimited by the first profile.
- 12. (Currently amended) A concentrator communication transmitter according to claim 9, wherein the minor diameter/dimension is delimited by the second profile.
- 13. (Currently amended) A concentrator communication transmitter according to claim 1 wherein the first surface is oval or elliptical.
- 14. (Currently amended) A concentrator communication transmitter according to claim 1 wherein the first surface is convex in at least one plane and preferably in the plane of the first profile.
- 15. (Currently amended) A <u>eoncentrator communication transmitter according to</u> claim 1 wherein the concentrating surface has a concavely curved portion and the first profile is in the concavely curved portion.
- 16. (Currently amended) A concentrator-communication transmitter according to claim 7 wherein the concentrating surface has a substantially straight or flat portion and preferably the second profile is in the substantially straight or flat portion.
- 17. (Currently amended) A concentrator communication transmitter according to claim 1 wherein the first profile is designed to optimally totally internally reflect.
- 18. (Currently amended) A concentrator communication transmitter according to claim 1 wherein the first surface and/or the concentrator is rotationally asymmetric.
- 19. (Currently amended) A concentrator communication transmitter according to claim 1 wherein the first surface and/or the concentrator is symmetrical about a central plane.

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20. (Currently amended) A concentrator-communication transmitter according to claim 2 wherein the polarising filter filters radiation polarised in the direction of the minor axis and/or perpendicular to a plane containing the first profile.

- 21. (Currently amended) A concentrator communication transmitter according to claim 1 wherein the cross section of the concentrator along the concentrating surface is rotationally asymmetric.
- 22. (Currently amended) A concentrator communication transmitter according to claim 1 wherein the cross section of the concentrator along the concentrating surface is oval or substantially rectangular.
- 23. (Currently amended) A concentrator communication transmitter according to claim 1 further comprising a narrow band pass filter.
- 24. (Currently amended) A eoncentrator-communication transmitter according to claim 1 having a body comprising an optically transmissive material, which body is delimited by the first, second and concentrating surfaces.
- 25. (Currently amended) A concentrator-communication transmitter according to claim 24 wherein the material of the body is dyed to act as an optical filter.
- 26. (Currently amended) A eoncentrator communication transmitter according to claim 1 comprising an anti reflective coating on the second surface.
  - 27. (Canceled).
  - 28. (Canceled).
- 29. (Currently amended) A transmitter according to claim—28\_1 which is configured to discriminately transmit emitted radiation depending on polarisation such that emitted radiation which leaves the first surface has a higher proportion of radiation that is plane polarised in a predetermined orientation than the radiation emitted by the emitter.
- 30. (Currently amended) A transmitter according to claim—28<u>1</u> comprising a second profile disposed between the first and second surfaces which second profile is shaped to diffuse less emitted radiation than the first profile.
- 31. (Currently amended) A communication system comprising a concentrator or receiver transmitter according to claim 1; and a radiation emitter wherein the concentrator/a receiver receives radiation emitted from the emitter comprising a concentrator and a photodetector adjacent the second surface for detecting incident radiation which reaches the

second surface and providing an output signal indicative of the radiation detected wherein the receiver receives radiation emitted from the emitter.

- 32. (Original) A communication system according to claim 31 wherein the radiation emitted by the emitter is polarised.
- 33. (Original) A communication system according to claim 32 wherein the radiation emitted by the emitter is polarised in the direction normal to the orientation filtered by the polarising filter and/or in the direction of the major diameter/dimension or plane containing the first profile.
- 34. (Previously presented) A communication system according to claim 32 wherein the radiation emitted by the emitter is substantially coplanar with the major diameter/dimension or plane containing the first profile of the concentrator.
- 35. (Previously presented) A communication system according to claim 33 comprising a second communication receiver orientated so that the polarising filter of the second receiver filters out the emitted radiation and wherein the signal from the second concentrator is subtracted from the signal from the first concentrator to remove ambient radiation from the combined signal.
  - 36. (Canceled).
- 37. (Previously presented) A communication system according to claim 31 wherein the emitted radiation is in the infrared spectrum.
- 38. (Currently amended) An optical transceiver/device for a wireless A communication system transmitter comprising an optically transmissive body having a first and second end and a reflecting surface disposed between the first and second end, which reflecting surface (totally internally) reflects radiation passing through the body onto the first or second end wherein an optical polarising filter is located between the first and second ends such that it polarises radiation that passes through the body.
- 39. (Currently amended) An optical transceiver/device A communication transmitter according to claim 38 in which thea first end has with a larger surface area than the second end and wherein the reflecting surface is shaped such that radiation passing through the body from the second end to the first end is concentrated and radiation passing through the body from the first end to the second end is diffused.
- 40. (Currently amended) A transceiver/device communication transmitter according to claim 38 in which the first end has a major diameter/dimension and a minor

diameter/dimension wherein the major diameter/dimension is longer than the minor diameter/dimension and the angle of field is greater along the major diameter/dimension than along the minor diameter/dimension.

41. (New) A communication transmitter according to claim 1 wherein the concentrator is configured to discriminately collect incident radiation depending on polarization such that incident radiation which reaches the second surface has a higher proportion of radiation that is plane polarized in a predetermined orientation than the radiation incident at the first surface.